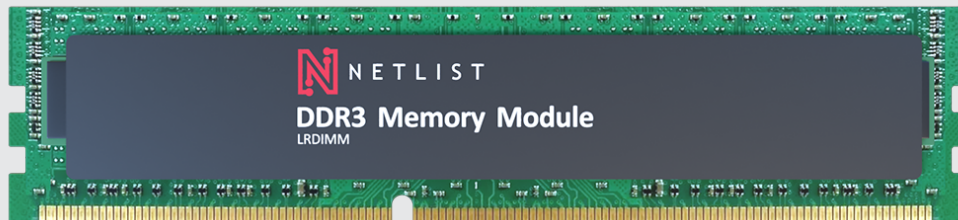# Exhibit 3

NETLIST

PRODUCTS
MEMORY MODULE

DDR3 DIMMs

Netlist offers a wide lineup of leading-edge commercial and industrial grade DDR3 DIMMs. All memory and storage products are 100% system tested from -40°C to +95°C for Industrial Temp Grade and from 0°C to +85°C for Commercial Temp Grade.

NETLIST
DDR3 Memory Module
LRDIMM

LEARN MORE

DDR4 DIMMs

Netlist offers a wide lineup of leading-edge commercial and industrial grade DDR4 DIMMs. All memory and storage products are 100% system tested from -40°C to +95°C for Industrial Temp Grade and from 0°C to +85°C for Commercial Temp Grade.
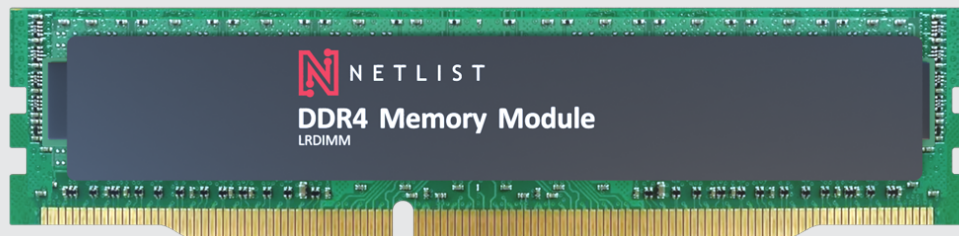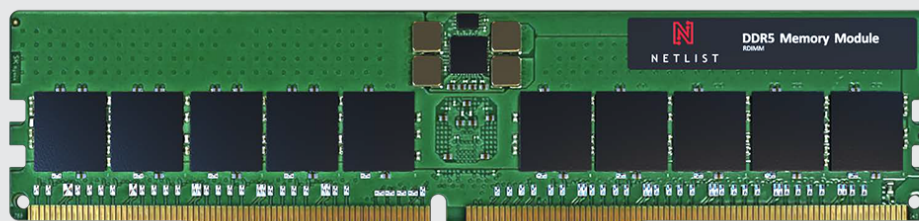

LEARN MORE

LEARN MORE

DDR5 DIMMs

Netlist offers a wide lineup of leading-edge commercial and industrial grade DDR5 DIMMs. All memory and storage products are 100% system tested from -40°C to +95°C for Industrial Temp Grade and from 0°C to +85°C for Commercial Temp Grade.

PRODUCTS

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Embedded Flash

Memory Module

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NLST 4,36 -0,19 -4,18%

PRODUCTS / MEMORY MODULE

DDR4 DIMMs

INTRODUCTION

Netlist offers a wide lineup of leading-edge commercial and industrial grade DDR4 DIMMs. All memory and storage products are 100% system tested from -40°C to +95°C for Industrial Temp Grade and from 0°C to +85°C for Commercial Temp Grade. Netlist's rigorous testing process is specifically designed to ensure these modules will operate reliably in harsh, long-life computing environments and densely configured computing applications with limited airflow.

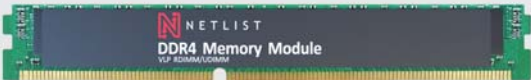Available in registered and unbuffered with ECC or non-ECC configurations, include standard Low-Profile height, Very Low Profile and Mini DIMMs. OEMs can choose Netlist industry-standard and custom modules with confidence knowing Netlist designs, manufactures, and rigorously tests each unit.

LRDIMM

VLP SORDIMM SOUDIMM

VLP RDIMM UDIMM

VLP MINI RDIMM UDIMM

SORDIMM SOUDIMM

RDIMM UDIMM

MINI RDIMM UDIMM

DDR4 DIMMs

FEATURES

- JEDEC Standard 1.2V+/-0.06V Power Supply
- VDDQ = 1.2V+/-0.06V
- VPP = 2.5V (2.375V to 2.75V)
- VDDSPD = 2.5V +/-10%
- Operating Temperature
  - T_{CASE} = 0°C to +85°C for Commercial Temp Grade
  - T_{CASE} = -40°C to +95°C for Industrial Temp Grade
- Data Transfer Rates
  - Up to PC4-3200
- 8-bit pre-fetch
- Bi-Directional Differential Data Strobe
- On Die Termination using ODT pin
- Temperature sensor with integrated SPD
- Burst Length (BL) switch on-the-fly BL8 or BC4 (Burst Chop)
- Temperature sensor with integrated
- RoHS compliant (Lead-free)
- Conformal Coating and BGA underfill are available upon request

BENEFITS

- Long term supply
- Locked BOM support
- High quality
- 100% system level testing
- Technical support

PRODUCT LINE-UP

	DENSITY	ORGANIZATION	MAX SPEED	PART NUMBER
RDIMM	64GB	8Gx72 (2Rank)	3200MT/s	NLX8G7T44G031D32wxyz(l)
	32GB	4Gx72 (2Rank)	3200MT/s	NLX4G7T42G071D32wxyz(l)
	16GB	2Gx72 (2Rank)	3200MT/s	NLX2G7T41G071D32wxyz(l)
	8GB	1Gx72 (1Rank)	3200MT/s	NLX1G7T41G071D32wxyz(l)
	4GB	512Mx72 (1Rank)	3200MT/s	NLX517T451071D32wxyz(l)
ECC UDIMM	32GB	4Gx72 (2Rank)	3200MT/s	NLX4G7242G071D32A0yz(l)
	16GB	2Gx72 (2Rank)	3200MT/s	NLX2G7241G071D32A0yz(l)
	8GB	1Gx72 (1Rank)	3200MT/s	NLX1G7241G071D32A0yz(l)
	4GB	512Mx72 (1Rank)	3200MT/s	NLX5172451071D32A0yz(l)
Non-ECC UDIMM	32GB	4Gx64 (2Rank)	3200MT/s	NLX4G6441G071D32A0yz(l)
	16GB	2Gx64 (2Rank)	3200MT/s	NLX2G6441G071D32A0yz(l)
	8GB	1Gx64 (1Rank)	3200MT/s	NLX1G6441G071D32A0yz(l)
	4GB	512Mx64 (1Rank)	3200MT/s	NLX5164451071D32A0yz(l)
ECC SoDIMM	32GB	4Gx72 (2Rank)	3200MT/s	NLY4G7244G071D32A0yz(l)
	16GB	2Gx72 (2Rank)	3200MT/s	NLY2G7242G071D32A0yz(l)
	8GB	1Gx72 (1Rank)	3200MT/s	NLY1G7241G071D32A0yz(l)
	4GB	512Mx72 (1Rank)	3200MT/s	NLY5172451071D32A0yz(l)
Non-ECC SoDIMM	32GB	4Gx64 (2Rank)	3200MT/s	NLY4G6442G071D32A0yz(l)
	16GB	2Gx64 (2Rank)	3200MT/s	NLY2G6441G071D32A0yz(l)
	8GB	1Gx64 (1Rank)	3200MT/s	NLY1G6441G071D32A0yz(l)
	4GB	512Mx64 (1Rank)	3200MT/s	NLY5164451071D32A0yz(l)
SO-RDIMM	32GB	4Gx72 (2Rank)	3200MT/s	NLY4G7T42G071D32wxyz(l)
	16GB	2Gx72 (2Rank)	3200MT/s	NLY2G7T41G071D32wxyz(l)
	8GB	1Gx72 (1Rank)	3200MT/s	NLY1G7T41G071D32wxyz(l)
	4GB	512Mx72 (1Rank)	3200MT/s	NLY517T451071D32wxyz(l)
VLP RDIMM	32GB	4Gx72 (1Rank)	3200MT/s	NVX4G7T44G031D32wxyz(l)
	16GB	2Gx72 (2Rank)	3200MT/s	NVX2G7T41G071D32wxyz(l)
	8GB	1Gx72 (1Rank)	3200MT/s	NVX1G7T41G071D32wxyz(l)
	4GB	512Mx72 (1Rank)	3200MT/s	NVX517T451071D32wxyz(l)
VLP ECC UDIMM	32GB	4Gx72 (2Rank)	3200MT/s	NVX4G7242G071D32A0yz(l)
	16GB	2Gx72 (2Rank)	3200MT/s	NVX2G7241G071D32A0yz(l)
	8GB	1Gx72 (1Rank)	3200MT/s	NVX1G7241G071D32A0yz(l)
	4GB	512Mx72 (1Rank)	3200MT/s	NVX5172451071D32A0yz(l)
VLP Non-ECC UDIMM	32GB	4Gx64 (2Rank)	3200MT/s	NVX4G6442G071D32A0yz(l)
	16GB	2Gx64 (2Rank)	3200MT/s	NVX2G6441G071D32A0yz(l)
	8GB	1Gx64 (1Rank)	3200MT/s	NVX1G6441G071D32A0yz(l)
	4GB	512Mx64 (1Rank)	3200MT/s	NVX5164451071D32A0yz(l)

	32GB	4Gx72 (2Rank)	3200MT/s	NVY4G7T42G071D32wxyz(I)
VLP So-RDIMM	16GB	2Gx72 (2Rank)	3200MT/s	NVY2G7T41G071D32wxyz(I)
	8GB	1Gx72 (1Rank)	3200MT/s	NVY1G7T41G071D32wxyz(I)
	4GB	512Mx72 (1Rank)	3200MT/s	NVY517T451071D32wxyz(I)
Mini RDIMM	16GB	2Gx72 (2Rank)	3200MT/s	NMX2G7T41G071D32wxyz(I)
	8GB	1Gx72 (1Rank)	3200MT/s	NMX1G7T41G071D32wxyz(I)
	4GB	512Mx72 (1Rank)	3200MT/s	NMX517T451071D32wxyz(I)
Mini ECC-UDIMM	16GB	2Gx72 (2Rank)	3200MT/s	NMX2G7241G071D32A0yz(I)
	8GB	1Gx72 (1Rank)	3200MT/s	NMX1G7241G071D32A0yz(I)
	4GB	512Mx72 (1Rank)	3200MT/s	NMX5172451071D32A0yz(I)
Mini Non-ECC UDIMM	16GB	2Gx64 (2Rank)	3200MT/s	NMX2G6441G071D32A0yz(I)
	8GB	1Gx64 (1Rank)	3200MT/s	NMX1G6441G071D32A0yz(I)
	4GB	512Mx64 (1Rank)	3200MT/s	NMX5164451071D32A0yz(I)
Mini VLP RDIMM	16GB	2Gx72 (2Rank)	3200MT/s	NUX2G7T41G071D32wxyz(I)
	8GB	1Gx72 (1Rank)	3200MT/s	NUX1G7T41G071D32wxyz(I)
	4GB	512Mx72 (1Rank)	3200MT/s	NUX517T451071D32wxyz(I)
Mini VLP ECC UDIMM	16GB	2Gx72 (2Rank)	3200MT/s	NUX2G7241G071D32A0yz(I)
	8GB	1Gx72 (1Rank)	3200MT/s	NUX1G7241G071D32A0yz(I)
	4GB	512Mx72 (1Rank)	3200MT/s	NUX5172451071D32A0yz(I)
Mini VLP Non-ECC UDIMM	16GB	2Gx64 (2Rank)	3200MT/s	NUX2G6441G071D32A0yz(I)
	8GB	1Gx64 (1Rank)	3200MT/s	NUX1G6441G071D32A0yz(I)
	4GB	512Mx64 (1Rank)	3200MT/s	NUX5164451071D32A0yz(I)

APPLICATIONS

- IOT computing / storage servers
- Network servers and equipment
- Industrial systems

- Ruggedized industrial servers
- Medical Equipment

- Embedded systems
- Automotive Applications

MARKETING COLLATERAL

Netlist DDR4 DIMMs Product Brief

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NLST 4,36 -0,05 -1,13%

NETLIST

PRODUCTS / MEMORY MODULE

DDR5 DIMMs

INTRODUCTION

DDR5 is the latest iteration of DRAM technology. It promises to offer significant performance improvements over its predecessor, DDR4, with increased data transfer rates, higher memory densities, and lower power consumption. DDR5 DIMMs are the physical modules that contain DDR5 memory chips and are used to expand the memory capacity of a computer system. DDR5 DIMMs have larger burst lengths than DDR4, with a burst length of 16 vs. 8, which allows for a greater amount of data to be transferred between the memory and the CPU.

DDR5 DIMMs also feature improved error correction capabilities, x80 vs. x72 with DDR4, making them more reliable and less prone to data corruption. DDR5 DIMMs operate at a voltage of 1.1 volts, which is lower than the 1.2 volts required by DDR4 DIMMs. This, combined with other power-saving features, makes DDR5 DIMMs more energy-efficient than their predecessors. DDR5 RDIMM includes a Power Management Integrated Circuit (PMIC) to manage power consumption, voltage regulation, and other aspects of power delivery. This is not present in DDR4 because it is a newer technology, designed with more advanced power management features to support higher memory speeds and lower power consumption. Overall, DDR5 DRAM DIMMs represent a significant upgrade in memory technology and are expected to become the standard for high-performance computing in the years to come.

Netlist offers a wide lineup of leading-edge commercial and industrial grade DDR5 DIMMs. All memory and storage products are 100% system tested from -40°C to +95°C for Industrial Temp Grade and from 0°C to +85°C for Commercial Temp Grade. Netlist's rigorous testing process is specifically designed to ensure these modules will operate reliably in harsh, long-life computing environments and densely configured computing applications with limited airflow.

Available in registered and unbuffered with ECC or non-ECC configurations, DIMM form factors include standard Low-Profile and Very Low Profile heights. OEMs can choose Netlist industry-standard and custom modules with confidence knowing Netlist designs, manufactures, and rigorously tests each unit.

RDIMM

VLP RDIMM

UDIMM

SODIMM

DDR5 DIMMs

FEATURES

- Data rates up to 6400 Mbps
- Burst Length (BL16)
- On-Die Error Correction Coding (ECC)
- Post-Package Repair
- Refresh Management
- CRC (write & read)
- Decision Feedback Equalization (DFE)
- Temperature Sensor-ICs on DIMM
- Enhanced Training Modes
- Up to 256GB RDIMM capacity
- Reduced I/O voltage (1.1V)
- Multiple DIMM Form Factors: RDIMM, VLP RDIMM, UDIMM and SODIMM in Non-ECC and ECC

BENEFITS

- Locked BOM Support
- JEDEC Compliant
- 100% System level testing
- Technical support
- Customization

NETLIST DDR5 RDIMM ORDERING INFORMATION

	DENSITY	ORGANIZATION	MAX SPEED	PART NUMBER
RDIMM	16GB	1Rx8	4800MT/s	NLR4G0054G0748200HA
	16GB	1Rx8	5600MT/s	NLR4G0054G0756200HA
	32GB	1Rx4	4800MT/s	NLR5G0054G0348200HA
	32GB	1Rx4	5600MT/s	NLR5G0054G0356200HA
	32GB	2Rx8	4800MT/s	NLR5G0054G0748200HA
	32GB	2Rx8	5600MT/s	NLR5G0054G0756200HA
	48GB	1Rx4	4800MT/s	NLRFG0054G0348200HA
	48GB	1Rx4	5600MT/s	NLRFG0054G0356200HA
	48GB	2Rx8	4800MT/s	NLRFG0054G0748200HA
	48GB	2Rx8	5600MT/s	NLRFG0054G0756200HA
	64GB	2Rx4	4800MT/s	NLR6G0054G0348200HA
	64GB	2Rx4	5600MT/s	NLR6G0054G0356200HA
	96GB	2Rx4	4800MT/s	NLRCG0054G0348200HA
	96GB	2Rx4	5600MT/s	NLRCG0054G0356200HA
	128GB	4Rx4	4800MT/s	NLR7G0054G3B48209HM
	128GB	4Rx4	5600MT/s	NLR7G0054G3B56209HA
	128GB	4RX4	4800MT/s	NLR7G0054G3B48200HA
VLP RDIMM	16GB	1Rx8	4800MT/s	NVR4G0054G0748201HA
	16GB	1Rx8	5600MT/s	NVR4G0054G0756202HA
	32GB	2Rx8	4800MT/s	NVR5G0054G0748201HA
	32GB	2Rx8	5600MT/s	NVR5G0054G0756202HA
	48GB	2Rx8	4800MT/s	NVRFG0054G0748201HA
	48GB	2Rx8	5600MT/s	NVRFG0054G0756202HA

NETLIST DDR5 UDIMM AND SODIMM ORDERING INFORMATION

	DENSITY	ORGANIZATION	MAX SPEED	PART NUMBER
nECC UDIMM	8GB	1Rx16	4800MT/s	NLU3G0054G1548200HA
	16GB	1Rx8		NLU4G0054G0748200HA
	32GB	2Rx8		NLU5G0054G0748200HA
	48GB	2Rx8		NLUFG0054G0748200HA
nECC UDIMM	8GB	1Rx16	5600MT/s	NLU3G0054G1556200HA
	16GB	1Rx8		NLU4G0054G0756200HA
	32GB	2Rx8		NLU5G0054G0756200HA
	48GB	2Rx8		NLUFG0054G0756200HA
ECC UDIMM	16GB	1Rx8	4800MT/s	NLE4G0054G0748200HA
	32GB	2Rx8		NLE5G0054G0748200HA
	48GB	2Rx8		NLEFG0054G0748200HA
ECC UDIMM	16GB	1Rx8	5600MT/s	NLE4G0054G0756200HA
	32GB	2Rx8		NLE5G0054G0756200HA
	48GB	2Rx8		NLEFG0054G0756200HA
nECC SODIMM	8GB	1Rx16	4800MT/s	NLS3G0054G1548200HA
	16GB	1Rx8		NLS4G0054G0748200HA
	32GB	2Rx8		NLS5G0054G0748200HA
	48GB	2Rx8		NLSFG0054G0748200HA
nECC SODIMM	8GB	1Rx16	5600MT/s	NLS3G0054G1556200HA
	16GB	1Rx8		NLS4G0054G0756200HA
	32GB	2Rx8		NLS5G0054G0756200HA
	48GB	2Rx8		NLSFG0054G0756200HA
ECC SODIMM	16GB	1Rx8	4800MT/s	NLT4G0054G0748200HA
	32GB	2Rx8		NLT5G0054G0748200HA
	48GB	2Rx8		NLTFG0054G0748200HA
ECC SODIMM	16GB	1Rx8	5600MT/s	NLT4G0054G0756200HA
	32GB	2Rx8		NLT5G0054G0756200HA
	48GB	2Rx8		NLTFG0054G0756200HA

APPLICATIONS

- Client PC
- WS/Server
- AI/ML
- HPC Workloads
- Industrial

ADDED VALUE

- Side Fill
- Conformal Coating
- Rugged Clip
- Heat Spreader

MARKETING COLLATERAL

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